

Remarks

Reconsideration of this Application is respectfully requested.

Upon entry of the foregoing amendment, claims 43-81 are pending in the application, with claims 43, 55, and 69 being the independent claims. Claims 43-56 and 64-69 are sought to be amended. These amendments are believed not to introduce new matter, and their entry is respectfully requested.

Based on the following remarks, Applicant respectfully requests that the Examiner reconsider all outstanding objections and rejections and that they be withdrawn.

Rejections under 35 U.S.C. § 101

Paragraph 4 of the Office Action rejects claims 43-81 under 35 U.S.C. § 101 as directed to non-statutory subject matter. Without commenting on the propriety of the rejection, Applicant submits claims 43, 55, and 69, and their respective dependent claims, are directed to statutory subject matter under 35 U.S.C. § 101.

With respect to claims 43-54, Applicant respectfully submits claim 43, and its dependent claims 44-54 are directed to the practical application of a "programmable CPU multiplier responsive to instructions dedicated to polynomial operations." Further, Applicant respectfully submits claim 43 and its dependent claims 44-54 include the useful and tangible result of providing an "output of the polynomial operations" that is "stored in a register." Because claims 43-54 are directed not only to a practical application, but also produce a useful and tangible result, Applicant respectfully requests

the Examiner reconsider and withdraw the rejection to claims 43-54 under 35 U.S.C. § 101 as being directed to nonstatutory subject matter.

With respect to claims 55-68, Applicant respectfully submits claim 55, and its dependent claims 56-68 are directed to the practical application of a "tangible computer-readable storage medium comprising a programmable CPU multiplier responsive to instructions dedicated to polynomial operations." Further, Applicant respectfully submits claim 55 and its dependent claims 56-68 include the useful and tangible result of providing an "output of the polynomial operations" that is "stored in a register." Because claims 55-68 are directed not only to a practical application, but also produce a useful and tangible result, Applicant respectfully requests the Examiner reconsider and withdraw the rejection to claims 55-68 under 35 U.S.C. § 101 as being directed to nonstatutory subject matter.

Further, with respect to claims 55-68, Applicant respectfully traverses the portion of the rejection asserting the claims are directed to software *per se*. Applicant respectfully asserts claims 55-68 are directed to "[a] tangible computer-readable storage medium comprising" Consequently, Applicant respectfully asserts the claims are clearly directed to a computer-readable storage medium having software embodied thereon, not software *per se*. Because claims 55-68 are directed to a computer-readable medium having software embodied thereon, and not to software *per se*, Applicant respectfully requests the Examiner reconsider and withdraw the rejection to claims 55-68 under 35 U.S.C. § 101 as being directed to software *per se*.

In addition, with respect to claims 55-68, Applicant respectfully traverses the portion of the rejection asserting the claims are directed to a non-tangible data signal.

Applicant respectfully asserts claims 55-68 are directed to "[a] tangible computer-readable storage medium comprising" (Emphasis supplied) Consequently, Applicant respectfully asserts the claims are clearly directed to a tangible medium. By limiting claim 55 to "[a] tangible computer readable medium," Applicant respectfully submits that contrary to the Examiner's assertion, claims 55-68 as recited do not cover non-tangible data signals. Consequently, Applicant respectfully submits claims 55-68 are directed to a tangible medium. Because claims 55-68 are directed to a tangible computer-readable medium, and not include non-tangible data signals, Applicant respectfully requests the Examiner reconsider and withdraw the rejection to claims 55-68 under 35 U.S.C. § 101 as being directed to including non-tangible data signals.

With respect to claims 69-81, Applicant respectfully submits claim 69, and its dependent claims 70-81 recite the practical application of a "multiply-divide unit responsive to instructions dedicated to polynomial operations." Further, Applicant respectfully submits claim 69 and its dependent claims 69-81 include the useful and tangible result of providing an "output of the polynomial operations" that is "stored in a register." Because claims 69-81 are directed not only to a practical application, but also produce a useful and tangible result, Applicant respectfully requests the Examiner reconsider and withdraw the rejection to claims 69-81 under 35 U.S.C. § 101 as being directed to nonstatutory subject matter.

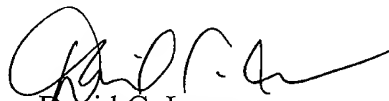
Conclusion

All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicants believe that a full and complete reply has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment and Reply is respectfully requested.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



David C. Isaacson
Attorney for Applicants
Registration No. 38,500

Date: January 25, 2008

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

754951_1.DOC